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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/052,077 01/17/2002		Charles Rogers	11738.00052	2977	
22908 7	7590 09/08/2004		EXAMINER		
BANNER & WITCOFF, LTD.			SIRMONS, KEVIN C		
TEN SOUTH ' SUITE 3000	WACKER DRIVE		ART UNIT	PAPER NUMBER	
CHICAGO, II	C 60606	3763			

DATE MAILED: 09/08/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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			Application No.		Applicant(s)	4
			10/052,077		ROGERS ET AL.	
Offic	e Action Summary	7	Examiner		Art Unit	
	·	1	Kevin C. Sirmons		3763	
The MAI Period for Reply	LING DATE of this commu	nication appea	ars on the cover sh	eet with the co	rrespondence add	fress
THE MAILING I - Extensions of time after SIX (6) MONT - If the period for repl - If NO period for rep - Failure to reply with Any reply received	O STATUTORY PERIOD IN COMMUNICATE OF THIS COMM	NICATION. us of 37 CFR 1.136(umunication. (30) days, a reply wistatutory period will ly will, by statute, ca	(a). In no event, however, ithin the statutory minimur apply and will expire SIX ause the application to bec	may a reply be time m of thirty (30) days (6) MONTHS from the	y filed will be considered timely. The mailing date of this col (35 U.S.C. § 133).	
Status						
1) Responsi	ve to communication(s) fil	led on 10 Jun	e 2004.			
,			ction is non-final.			
• .	application is in condition accordance with the pract		•	• •		merits is
Disposition of Cla	ims	•				
4)⊠ Claim(s) _ 4a) Of the 5)□ Claim(s) _ 6)⊠ Claim(s) _ 7)□ Claim(s) _	1-33 is/are pending in the above claim(s) is/a is/are allowed. 1-33 is/are rejected is/are objected to are subject to restri	are withdrawn				
Application Papers	S .					
9) The specif	ication is objected to by the	ne Examiner.				
	ng(s) filed on is/are		ted or b)□ object	ed to by the E	xaminer.	
Applicant r	may not request that any obje	ection to the dra	awing(s) be held in a	abeyance. See	37 CFR 1.85(a).	
•	ent drawing sheet(s) includin or declaration is objected t	_	•			• •
Priority under 35 L	J.S.C. § 119					
12) Acknowled a) All b) Cer 2. Cer 3. Cor	dgment is made of a claim Some * c) None of: tified copies of the priority tified copies of the priority bies of the certified copies blication from the Internation ached detailed Office action	y documents h y documents h s of the priority onal Bureau (nave been receive nave been receive y documents have PCT Rule 17.2(a))	d. d in Applicatio been received	n No I in this National S	Stage
Attachment(s)					•	
1) Notice of Reference				rview Summary (f		
· =	rson's Patent Drawing Review (i sure Statement(s) (PTO-1449 o Date	,			e tent Application (PTO-	·152)

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DETAILED ACTION

Specification

The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: a flow limiter; a first and second passive flow rate control elements.

The disclosure is objected to because of the following informalities: It is the Examiner's position that Applicant has evoked sixth paragraph, means-plus-function language to define Applicant's invention. Therefore the Examiner requires the Applicant to amend the specification pursuant to 37 CFR 1.75(d) and MPEP 608.01(o) to explicitly state, with reference to the terms and phrases of the claim element, what structure, materials, and acts perform the function recited in the claim element. Please note that the MPEP clearly states, "Even if the disclosure implicitly sets forth the structure, materials, or acts corresponding to the means-(or step-) plus-function claim element in compliance with 35 U.S.C. 112, first and second paragraphs, the PTO may still require the applicant to amend the specification pursuant to 37 CFR 1.75(d) and MPEP 608.01(o)..." (Also see MPEP 2181 (Rev. 1, Feb.2000)); See claim 19, 26 and any new claims with the means language.

Appropriate correction is required.

Drawings

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: a flow limiter; a first and second passive flow rate control elements.

Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the

specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement-drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to

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obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the

applicant will be notified and informed of any required corrective action in the next Office

action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Santangelo et al U.S. Pat. No. 4,604,089 in view of DeCant, Jr. et al U.S. Pat. No. 4,447,224.

Santangelo discloses a flow control device comprising: a reservoir (14) and a valve (56); a bolus delivery component comprising an inlet valve (68) an accumulator (64) and an outlet valve (62) in parallel communication with the valve. Santangelo does not disclose a control module or a bi-stable valves, solenoid valves, and piezoelectric valves. DeCant discloses a control module (68) for generating a control signal to the valve to thereby cause the valve to

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assume one of the two flow states and bi-stable valves, solenoid valves, and piezoelectric valves (42). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device of Santangelo to include a control module for controlling the bi-stable, solenoid and piezoelectric valves as taught by DeCant for automatically open and close the valves at appropriate times (col. 6, lines 1-35). As to claim 2, (60); as to claim 3, (see above rejection); as to claims 4, (see above rejections); as to claim 5, (Applicant has provided not structure for a bi-stable valve, therefore, valve 42 is regarded as a by stable valve.) As to claims 6-12, (see above rejections and it is the examiner position that the control module of DeCant is fully capable of providing signals to the inlet and outlet valves.) As to claims 14-33, (see above rejections).

Note: Micro-machined bi-stable valves have very little structure. Additionally, after reviewing applicant entire specifications and related patents and articles, the examiner has concluded that Micro-machined bi-stable valves have any art-recognized structure. Therefore, the valve could be regarded as any valve that opens and closes.

Conclusion

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Kevin C. Sirmons whose telephone number is (703) 306-5410. The examiner can normally be reached on Monday - Thursday from 6:30 am to 4:00 pm. The examiner can also be reached on alternate Fridays.

Kevin C. Sirmons

KC5 Sermons

Patent Examiner

8/16/04